

AD/TD Joint Projects Meeting
Wednesday, 5 January 2005, 1:15 PM
Club 157, Trailer 157

Present: Paul Czarapata, Dave Harding (scribe), Peter Garbincius, Hank Glass, Gregg Kobliska, Jeff Spalding, John Zweibohmer

Review of Tasks and Priorities

Linac Power amplifier tubes (#285)

The designer from PPD who is working on this is Brian Ellison. (Tom Sperry is working on BTeV.) A visit to Burle is planned for later this month.

Booster kickers (#305, #364)

A pre-release beam tube drawing is being shown to a potential vendor for comment and budgetary cost estimate.

OrBump (#203)

Jim Lackey has the first magnet mounted and moved to the kicker shop for testing. He will measure the integrated field as a function of position.

Booster trim package (#291)

The coil package is defined as two each dipoles, quadrupoles, and sextupoles. The desired strengths appear to be readily achievable, though almost all new power supplies will be required. The mechanical envelope has been specified. The mechanical design is just starting. Jim Lackey is making a prototype BPM.

Main Injector/Tevatron Lambertson spares (#181)

The first spare has been measured and is ready to go. TD will pump it down and back-fill with nitrogen before shipping it. The inner core of the second magnet is nearly ready for its deep bake-out. Coil winding on the third and fourth is well under way and will be done soon.

Debuncher extraction kicker (#225)

A meeting is scheduled for Friday with all the key players. AD management really needs a review of the technical options a) with time and cost estimates and b) benefit estimates from simulations. A TD/AD meeting is being organized for the first week of January to address a). P-Bar physicists need to address b).

LEP corrector coils (#274, #351)

Production of more coils is proceeding vigorously. Eleven (nine) each horizontal (vertical) coils have been potted. Another batch of each should be potted next week. That will finish the horizontals. All coils have been wound.

WQB (#295)

We have received laminations and the main conductor. As the tooling arrives, fabrication can begin. TD is confident in being able to build the four critical magnets for the extraction regions in time for the 2005 late summer shutdown, and perhaps the one for the injection region. The two for the Recycler transfer points are less critical, as are the two spares. Once the first article is built, tested, and tuned up, it could be installed earlier if the opportunity presented itself, but there is no time scheduled for that before the main shutdown. AD has estimated that a week or more would be required, depending on how much the NuMI beam line is realigned to better take advantage of the newly available

aperture. This is comparable to the time estimated to install the new OrBump system once it is ready.

BLASTMAN (#297)

Discussions are resuming on providing a mechanism for making magnet measurement data more readily available to accelerator modelers. This will require resources. There was one meeting in December and another is scheduled for next week.

Separators (#265, #337, #338, #377, #243)

There was a meeting Tuesday afternoon. A note from that meeting defines the work plan for the year, but is subject to review by the involved parties before general circulation. A detailed plan is needed to ensure proper staffing.

Bypass storage

TD is storing about half a dozen Tevatron bypasses in Magnet Storage Building. A couple of years ago there was an agreement to consolidate storage of these devices with those under AD control, but this seems to have fallen through. TD would like to get rid of them.

New jobs

No new jobs.

**Next Meeting: Wednesday, 19 January 2005, 1:15 PM
Club 157 in Trailer 157**